

Command

First Handshake to First Unit of Assignment



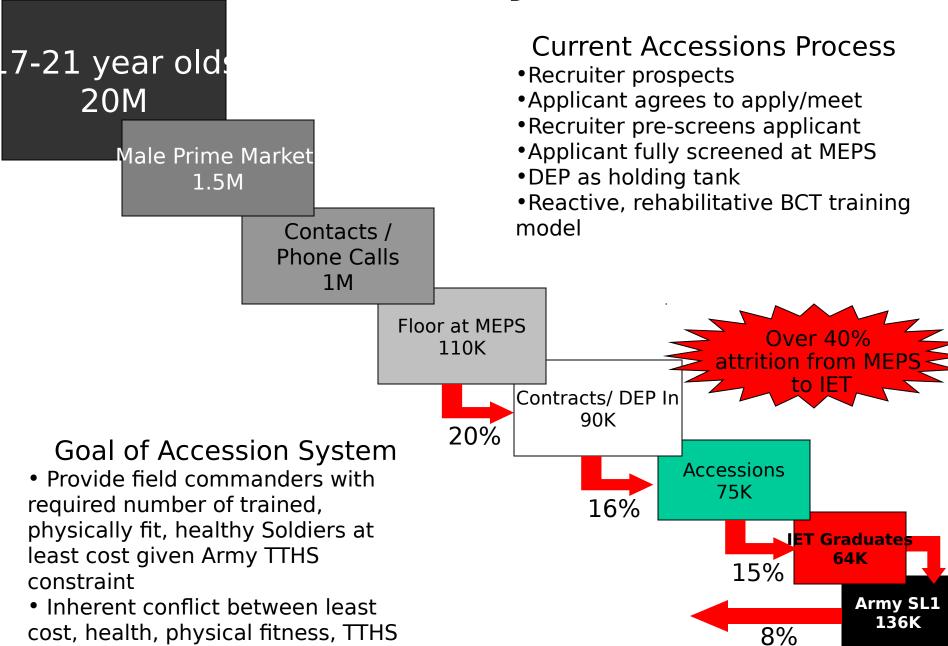
Regular Army Enlisted Attrition Overview

MAJ Gene Piskator
Accessions Research Consortium

Purpose & Agenda

- Provide overview of RA enlisted attrition to familiarize general audience
- * Agenda
 - Enlisted accessions system & attrition
 - Youth recruiting market
 - DEP attrition
 - IET Attrition
 - 1st Term Unit Attrition
 - Attrition research & attrition reduction personnel policies

Enlisted Accession System & Attrition



Interesting "Facts" about FY03 College Freshmen (Class of '07)

- They were born in 1985.
- Iraq has always been a problem -they were 5 years old when the Persian Gulf war was fought.
- Afghanistan has always been a front page story.
- Russian leaders have always looked like leaders everyplace else, and the US and the Soviets have always been partners in space.
- An automatic is a weapon, not a transmission.
- The Army has always driven Humvees.
- Pete Rose has always been a gambler.
- Killer bees have always been swarming in the US.
- There has always been some association between fried eggs and your brain.

- Bert and Ernie are old enough to be their parents.
- There has always been a screening test for AIDS.
- They have always been able to make photocopies at home.
- Computers have always fit in their backpacks, "Ctrl+Alt+Del" is as basic as "ABC."
- They never heard Howard Cosell call a game on ABC.
- The Osmonds are just talk show hosts.
- Test tube babies are now having their own babies.
- Datsuns have never been made.
- Gas has always been unleaded.
- Rock and Roll has always been a force for social good.

Recruiting Prime Market

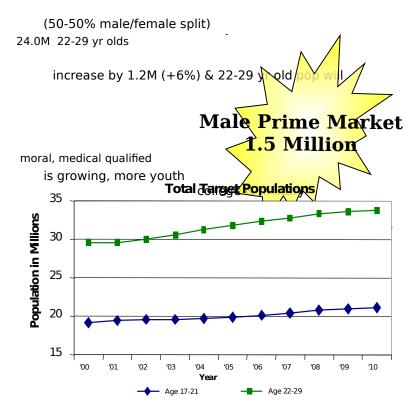
- Total Target Population Size: 19.6M 17-21 yr olds & 30.6 M 22-29 yr olds.
 - → Educationally Qualified Population: 16.8M 17-21 yr olds &
 - Qualified Military Available = non-high school drop-outs
- * Projected Growth: By 2008 17-21 yr old pop will

increase by 2.7M (+9%)

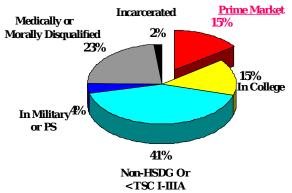
- African American market grows slightly
- Major growth in Hispanic market
- Caucasian market decreases slightly.
- Prime Market: educational, aptitude,
- Although target population

are continuing to

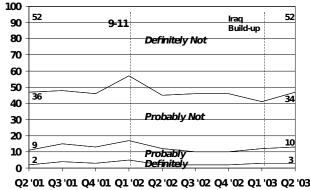
propensity is declining



Male Prime Market



Propensity for Active Duty Military Service (16-24 yrs old)



Demographic & Psychographic Profile of RA Enlisted Applicant

FY03 Demographics

- * Total Contracts: 92,613
- * Male (80.0%)
- * White (64.7%)
- * African Am (16.4%)
- * Hispanic (13.4%)
- * API/Other (5.4%)
- * Single (83.2%)
- * Seniors (18.7%)
- * Average Age: 21.3 yr
- * Education: 12.2 yr
- * TSC I-IIIA: 73.7%
- * Average AFQT: 61.8
- * Average GT: 107.7
- * Term: 3.88 yr
- * Contracted Time In DEP:

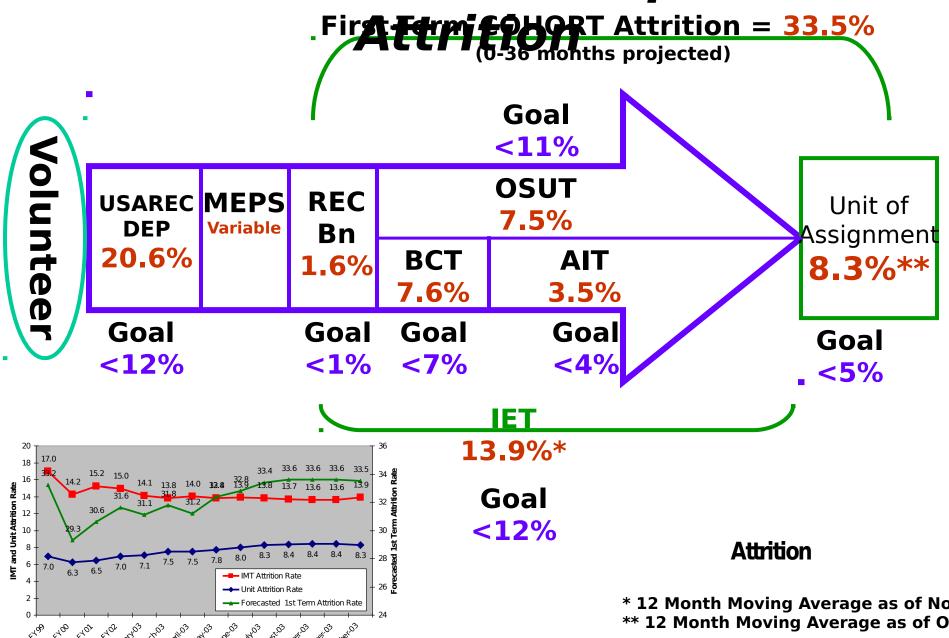
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FY02 Psychographics

- Most important motivation to enlist:
 - →Serve my county (32%)
 - Skills (23%)
 - Adventure (17%)
 - Benefits (8%)
 - Pay (4%)
- * Highest degree you will obtain:
 - Masters or PhD (30%)
 - Bachelors (30%)
 - Associates (6%)
 - High School (6%)
 - Undecided (23%)
- * Has anyone you've known served in the military:
 - Father (38%)
 - Mother (4%)
 - Friend (41%)
 - Uncle/Aunt (54%)
 - Grand-parent (57%)
 - Sibling (14%)

Source: FY02 New Recruit Survey

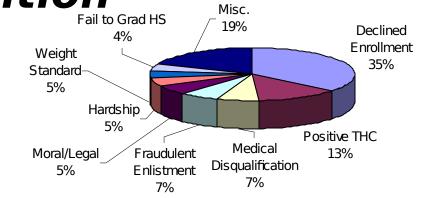
1st term Active Component

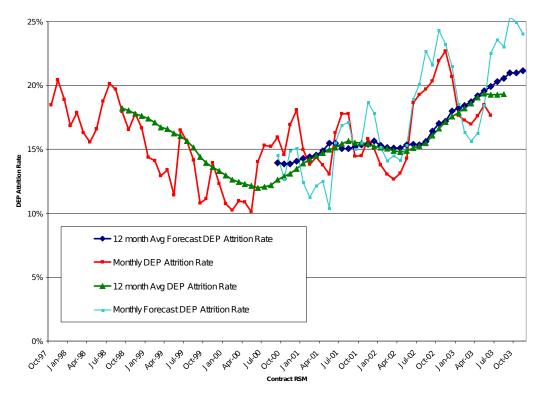


Delayed Entry Program (DEP)

Attrition

- FY03 19.5% and increasing
 - → 92K RA contracts
- * Near-term forecast
 - 20-21%
 - Increased from 13% in FY01
 - Primarily due to longer Time-in-DEP and higher quality contracts
- Most likely attrition reasons:
 - Decline Enrollment (35%)
 - Positive THC (13%)
 - Medical Disqualification (7%)
 - Fraudulent Enlistment (7%)
- * Correlated to DEP attrition
 - Time-in-DEP
 - Gender
 - HSDG (education Tier)
 - TSC (AFOT)
 - Unemployment Rate



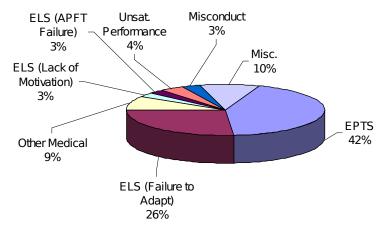


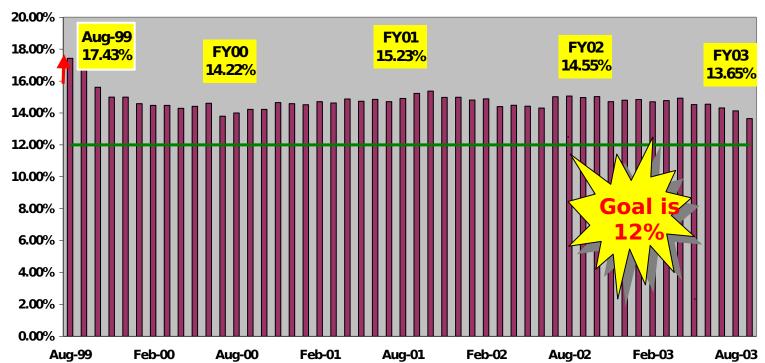
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Source: USAAC Data Warehouse

Annual Training Base Attrition

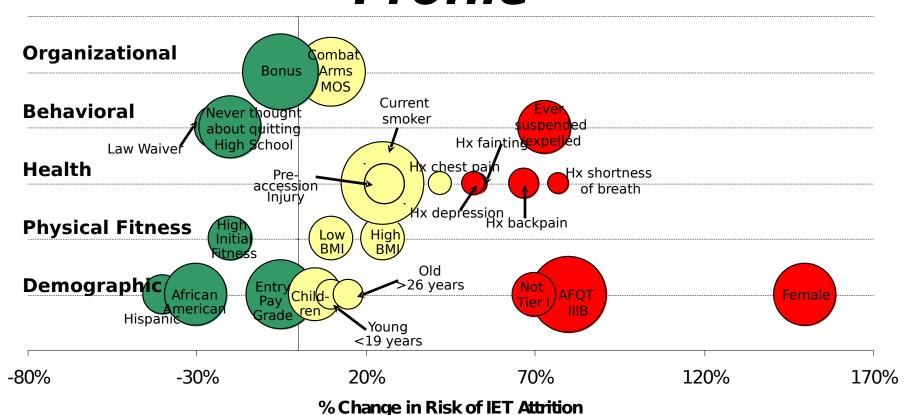
- FY03 13.7% and decreasing
 - 71K Reception BN inputs
- Most likely attrition reasons:
 - EPTS (42%)
 - ELS (Failure to Adapt) (26%)
 - Other Medical (9%)





Source: ATRRS September 2003 data

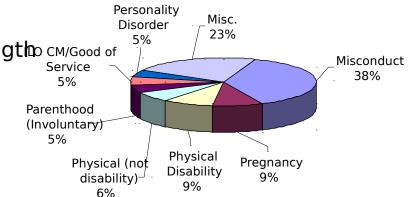
Regular Army IET Attrition Risk Profile

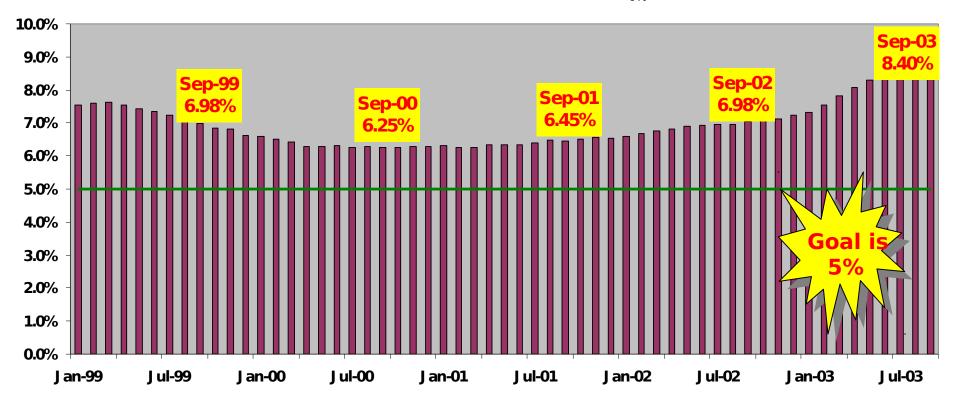


- Base-case IET attrition risk is 15%
- Bubble size is relative to size of RA enlisted accession population
 - Not Tier 1 (10%)
 - Female (20%)
 - AFQT IIIB (30%)

Annual 1st Term Unit Attrition

- FY03 8.4% and decreasing
 - → 136K avg. 1st term unit operating strength cM/Good of
- Most likely attrition reasons:
 - Misconduct (38%)
 - Pregnancy (9%)
 - Physical Disability (9%)





Source: SIDPERS September 2003 data

Attrition Reduction Policy Course Of Action Framework:

Mix of screening as sessment & ininterventions Dual track BCT (long & short training tracks) vention • Basic skills education Assess attrition & Coping skills / decision making training training risk of Occupational Therapy **Asses** remaining soldie Social work services Focused PT Screenin Pre- Limit enlistment MOS for high risk Classaccession applicants ificatio Screen • Limit time of year high risk applicants n can assess--2d/3d quarter Scree • 1941ten current screens--fewer admin. waivers, more TSC A, fewer non-HSD0

- Develop new screening tools--physical fitness, psychological, asthma, ortho
 Screen non-HSDGs w/ AIM
- In future, possibly screen out highest risk applicants

Attrition

Any screening or training attrition reduction policies will require resources (\$, personnel, time, TTHS)--no free lunch

Attrition Research & Attrition Reduction Personnel Policies: DEP

DEP Attrition Research

- Pre-accession Physical Fitness screen (CHPPM)
- Assessment of Recruit Motivation & Strength (ARMS) Study (AMSARA)
- Descriptive & prescriptive DEP attrition models (CAR/USAREC)

DEP Attrition Reduction Personnel Policies

- DEP training program (USAREC)--strategic shift
- DEP Physical training Program (USAREC &USAPFS)
- 1-1-1 APFT Pre-accession Physical Fitness Screen (USAREC)
- DIVT (IT) assistance to DEP
- DEP forgiveness policies (USAREC)
- Managing contract quality by opening/closing recruiting categories (limited categories)

Attrition Research & Attrition Reduction Personnel Policies: IET

- IET Attrition Research
 - FY03 Cohort Attrition Study (ARI)
 - FY99 Cohort Attrition Study (ARI)
 - High School Degree Graduate Pre-accession Screen study (ARI)
 - Evaluation of TRADOC Standardized Physical Training Program (CHPPM)
 - Dual-track BCT
 - Adverse Childhood Experiences-Recruit Assessment Program (RAP-ACE)
- IET Attrition Reduction Personnel Policies
 - Implement TRADOC Standardized Physical Training Program (o/a Mar '04)
 - Review current BCT POI & develop future BCT POI
 - APFT failure hold-over policy
 - ASVAB re-norming
 - Implement production test of AIM Non-HSDG screen
- Management & coordination actions
 - USAAC IET Attrition Working Group (AWG) --3-5 Mar '04
 - Human Dimensions Lab (HDL) at Ft Jackson

Attrition Research & Attrition Reduction Personnel Policies: 1st Term Unit

- 1st Term Unit Attrition Research
 - FY99 Cohort Attrition Study (ARI)
- 1st Term Unit Attrition Reduction Personnel Policies
 - Buddy team Assessment Program (BTAP)
 - Revised Deserter policy
 - Improve soldier's overall job satisfaction & quality of life in areas such as: barracks/housing improvements, strong unit command sponsorship programs, and childcare improvements.
 - Encourage soldiers' participation in the Better Opportunities for Single Soldiers (BOSS) program.
 - Education programs: Army values, benefits of completing enlistment.
 - Mandatory Training: Safety & Accident prevention, Suicide prevention, Substance Abuse program.
 - ARM/CARR: Commander's attrition Programs
- Management & coordination actions
 - G-1 Unit Attrition Working Group (AWG)

Questions?



Back-ups

Individual DEP Attrition Model

- Base case: male, Caucasian, single, GMA, Tier 1, 2 months Time in DEP, contracted second week of RSM in 2d quarter, 1st Brigade
- Base case DEP attrition probability: 12%
- Change in probability of DEP attrition:

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GMB:
        -10%
                             Married: -31%
                                                     1% increase
  GFA:
        +25%
                                                     unemployment:
                             Dependents: +10%
  SMA:
       +23%
                             Last week of RSM:
                                                     1st BDE: 0%
  SMB:
        +35%
                             Last day of RSM:
                                               +14%
                                                     (base case)
  SFA:
        +107%
                             9-11-01 Effect*:
                                                     2d BDE:
                                                              +11%
  SFB: +86%
                             1 year older: +5%
                        +15%1-2 years College:
                                                     3rd BDE:
                                                               -6%
  +1 month Time in DEP:
                                                -28%
                                                     5th BDE:
                                                               -10%
  Not Tier 1: +16%
                             College Grad: -30%
  Hispanic: -13%
                                                     6th BDE:
                                                               -10%
                             BMI <18: +22%
  4th Quarter: -6%
                             Non-citizen: -16%
*correlated w/ rising unemployment
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FY03 IET Attrition Categories & Sensitivity

What we know:

- Multiple reasons why an individual recruit attrits but management information systems capture only one reason (AAA, ARI)
- Categories are fungible & statistics not exact (AMSARA, AAA, ARI)
- Significant overlap between EPTS & Other Medical categories (AMSARA)
- Minimal overlap between medical & ELS administrative categories (AMSARA)
- EPTS discharge rate increasing (data)
- Recruits & Army venue shop for most expeditious discharge (ARI)

Few rec	iuits	attrit	for BRM fa	rilure. I	OCT	failure.	APFT fa	ilure (d	ata)
% /Stelle sitiv Reduction 2++	ity:	r feilst e a to Adapt	other dd Mesisə l EP' Disqualifications	TSa& ŒL Motivation	SPFA Failure	ilu 卡也^s不o A Performance	Adapt to Misconduct	n lee t d	o Call Categories
5% / acc	13.3%	13.4%	13.5%	13.6%	13.6%	13.6%	13.6%	13.5%	12.9%
10 %	13.0%	13.2%	13.5%	13.6%	13.6%	13.5%	13.6%	13.5%	12.2%
15 %	12.7%	13.1%	13.4%	13.5%	13.5%	13.5%	13.5%	13.4%	11.6%
20 %	12.4%	12.9%	13.4%	13.5%	13.5%	13.5%	13.5%	13.3%	10.9%
25 %	12.1%	12.7%	13.3%	13.5%	13.5%	13.5%	13.5%	13.3%	10.2%
30 %	11.8%	12.5%	13.2%	13.5%	13.5%	13.4%	13.5%	13.2%	9.5%
40 %	11.3%	12.2%	13.1%	13.5%	13.5%	13.4%	13.4%	13.1%	8.2%
50 %	10.7%	11.8%	13.0%	13.4%	13.4%	13.3%	13.4%	12.9%	6.8%
75 %	9.2%	10.9%	12.7%	13.3%	13.3%	13.2%	13.3%	12.6%	3.4%
100 %	7.8%	10.0%	12.4%	13.3%	13.2%	13.1%	13.2%	12.3%	0.0%
attrits per 100 recruits	5.8	3.6	1.2	0.3	0.4	0.5	0.4	1.3	13.6
% of IET Attrition	43.0%	26.5%	8.7%	2.5%	2.7%	3.8%	3.0%	9.8%	100.0%

<12%

FY03 IET Attrition Categories by Gender

* Comparing female recruits to male recruits:

- Twice as likely as males to attrit from IET
- Twice as likely as males to attrit for EPTS and ELS failure to Adapt
- Three times as likely as males to attrit for Other Medical
- Five times as likely as males to attrit for APFT failure
- Few attrits due to pregnancy (<1 per 100 females)</p>
- Access with lower initial fitness (CHPPM)

%Attrition i	e a	S illik	elyes m	ates	tϼϼϼ	e įpjur	ed in	BCT (СӉ҉Ҏ҈Р	M) ^{All} Attrition
Reduction	EPTS	to Adapt	Disqualifications	Motivation	Failure	Performance	Misconduct	Pregnancy	Categories	Categories
Male (82.2%)	45.0%	27.0%	7.3%	2.2%	2.1%	3.9%	4.4%	0.0%	8.1%	11.3%
Female (18.8%)	38.6%	25.5%	11.8%	3.0%	4.2%	3.7%	1.7%	3.1%	8.4%	23.4%
Total	43.0%	26.5%	8.7%	2.5%	2.7%	3.8%	3.6%	1.0%	8.2%	13.6%
attrits per 100 males	5.1	3.1	0.8	0.2	0.2	0.4	0.5	0.0	0.9	11.3%
attrits per 100 females	9.0	6.0	2.8	0.7	1.0	0.9	0.4	0.7	2.0	23.4%

Unit Attrition – Top 5 Loss Categories

Loss Category	FY1999	Loss Category	FY2000	Loss Category	FY2001
MISCONDUCT	30%	MISCONDUCT	30%	MISCONDUCT	32 %
PHYSICAL DISABILITY	12%	PHYSICAL DISABILITY	13%	PREGNANCY	11%
PREGNANCY	10%	PREGNANCY	11%	PHYSICAL DISABILITY	10 %
WEIGHT CONTROL	7 %	WEIGHT CONTROL	5%	PHYSICAL (NOT DIS)	6 %
UNSAT PERF	7 %	PHYSICAL (NOT DIS)	5%	PERS DISORDER	5%

Loss Category	FY2002	Loss Category	FY2003
MISCONDUCT	34%	MISCONDUCT	38 %
PREGNANCY	10 %	PREGNANCY	9 %
PHYSICAL DISABILITY	9 %	PHYSICAL DISABILITY	9 %
ILO CM/GOOD OF SERV	7 %	PHYSICAL (NOT DIS)	6 %
PHYSICAL (NOT DIS)	6 %	ILO CM/GOOD OF SERV	6 %

Who can Help?
•TJAG (Misconduct)
•OTSG (Physical)
•HR (Weight Control)
•Leaders (Unsat Perf/Misconduct)

Air Force Recruit Psychological Screening Program

- * Biographical Screening of Troops (BEST) program
- * 3 phase screening procedure to identify trainees at risk for mental health problems--administered post-accession during BCT

inprocessing

- Phase I: Self-report test of biographic information
- Phase II: Computer based biographic information test & interview by mental health technician.
- Phase III: Interview by clinical psychologist or psychiatrist
- 2% of FY02 trainees screened at Phase III (865 of 43K)
- .2% of FY02 trainees discharged (93 of 42,995)
- Navy discontinued use of similar psychological screening program in Jan 2001 due to concerns of high false positive rate
- Only 20% of recruits referred for psychological treatment are identified using the BEST screen (20% sensitivity)

		- · -
		% of
Phase/Event .	Trainees	Phase
Phase I Test 🤇	42,995	
Phase II Test Required	5647	13%
Total Phase II	5647	
Phase II Return To Duty	4449	79%
Phase III referral	865	15%
BEST not complete	264	5%
Hospitalized, psychiatric	6	0%
Hospitalized, medical	2	0%
Special counseling	61	1%
Total Phase III	865	
Phase III Return to Duty	203	23%
Not seen in Phase III-RTD	546	63%
RTD without PRP	15	2%
Recommended for Discharge	93	11%
Hospitalized	8	1%

Pre-accession Attrition Screen Hypothetical Scenarios

		Sensitivity	Specificity		Number			Number				Screening	Total		
		of Test	of Test	Cost	of		Number	of Falsely		Training		Costs	Costs		
	Percent	% Correct	% Correct	per	Tests/	Number	of	Screened	Number	Cost		(\$K)	(\$M)	Percent	
	Natural	ID of	ID of	pre-accession	required	of	Attriters	Applicants	of	per	Training	(less	(less	Training	Trained
Scenario	Attrition	Attriters	Non-Attriters	Test	applicants	Attriters	Screened	(non-attriters)	Accessions	Trainee	Attriters	recruiting)	recruiting)	Attrition	Output
No Screen	10%	N/A	N/A	0	0	11	N/A	N/A	111	5000	11	N/A	0.56	9.9%	100
No Screen	15%	N/A	N/A	0	0	18	N/A	N/A	118	5000	18	N/A	0.59	15.3%	100
No Screen	20%	N/A	N/A	0	0	25	N/A	N/A	125	5000	25	N/A	0.63	20.0%	100
Scenario 1	10%	0.25	0.85	100	131	13	3	18	110	5000	10	13.10	0.56	9.1%	100
Scenario 2	10%	0.5	0.9	100	123	12	6	11	106	5000	6	12.28	0.54	5.7%	100
Scenario 3	10%	0.75	0.95	100	117	12	9	5	103	5000	3	11.65	0.53	2.9%	100
Scenario 4	15%	0.25	0.85	100	139	21	5	18	116	5000	16	13.91	0.59	13.8%	100
Scenario 5	15%	0.5	0.9	100	131	20	10	11	110	5000	10	13.08	0.56	9.1%	100
Scenario 6	15%	0.75	0.95	100	124	19	14	5	105	5000	5	12.40	0.54	4.8%	100
Scenario 7	20%	0.25	0.85	100	148	30	8	18	122	5000	22	14.79	0.62	18.0%	100
Scenario 8	20%	0.5	0.9	100	139	28	14	11	114	5000	14	13.91	0.58	12.3%	100
Scenario 9	20%	0.75	0.95	100	131	26	20	5	106	5000	6	13.12	0.54	5.7%	100

Tangible Intangible Benefit Cost Tangible Cost

Intangible Benefit

Utility of pre-accession screening

- → Tangible & intangible costs: screening cost, ill-will caused by screening out non-attriters
- Tangible & intangible benefits: lower total training costs, lower IET attrition, increased job performance
- Screen has positive utility & should be used if all benefits outweigh all costs
- Scenario 4 versus No Screen: Lower IET attrition from 15.3% to 13.8% by screening 139 applicants, including screening out 18 applicants who would have completed IET, at a cost of \$14K
- Need to "recruit" 139 versus 118 otherwise fully qualified applicants (+18%)

IET High Attrition Risk Demographic Profile

* Data

- → 144K sample of RA non-prior service soldiers who assessed between October 2000 and Oct 2002
- Sample IET attrition rate of 19.5%
- 6 way (variable) categories where sample size >50
- Ranked highest attrition risk to lower risk

Conclusions

- Most high attrition risk groups are low-density
- Must screen out significant number of high attrition risk applicants to appreciably reduce attrition
- Large number of applicants who would have probably completed IET would be screened out
- Screen or intervene?

											% Current	% Current
				Body	Test					% IET	% Current Applicants	% Current Applicants
				Mass	Score	Sample	IET	%IET	% of	Attrition	Screened	Falsely
Gender	Race	Tier 1	Age	Index	Category	Size	Graduates	Attrition	Sample	w/ screen	Out	Screened
F	CAUC	tier2	>26 years	>90% BMI	TSC I-IIIA	52	22	57.7%	0.04%	19.5%	0.0%	0.0%
F.	CAUC	tier2	19-26 yrs	>90% BMI	TSC I-IIIA	82	41	50.0%	0.06%	19.5%	0.1%	0.0%
F	CAUC	tier2	<19 years	Low BMI	TSC B/IV	171	93	45.6%	0.13%	19.5%	0.2%	0.1%
F	CAUC	tier2	19-26 yrs	Low BMI	TSC I-IIIA	828	459	44.6%	0.62%	19.3%	0.8%	0.5%
F	CAUC	tier2	>26 years	Low BMI	TSC I-IIIA	163	91	44.2%	0.12%	19.3%	1.0%	0.5%
F	CAUC	tier2	<19 years	Low BMI	TSC I-IIIA	440	247	43.9%	0.33%	19.2%	1.3%	0.7%
F	CAUC	tier1	>26 years	>90% BMI	TSC B/IV	54	31	42.6%	0.04%	19.2%	1.3%	0.7%
F	CAUC	tier2	19-26 yrs	Low BMI	TSC B/IV	238	140	41.2%	0.18%	19.2%	1.5%	0.8%
F	CAUC	tier1	>26 years	Low BMI	TSC B/IV	165	99	40.0%	0.12%	19.1%	1.6%	0.9%
F	AA	tier2	19-26 yrs	>90% BMI	TSC I-IIIA	51	31	39.2%	0.04%	19.1%	1.7%	0.9%
M	CAUC	tier1	>26 years	>90% BMI	TSC B/IV	119	73	38.7%	0.09%	19.1%	1.8%	1.0%
F	CAUC	tier1	19-26 yrs	>90% BMI	TSC I-IIIA	448	277	38.2%	0.34%	19.0%	2.1%	1.2%
M	CAUC	tier2	<19 years	>90% BMI	TSC B/IV	64	40	37.5%	0.05%	19.0%	2.2%	1.2%
F	CAUC	tier1	19-26 yrs	>90% BMI	TSC B/IV	148	93	37.2%	0.11%	19.0%	2.3%	1.3%
F	CAUC	tier1	>26 years	Low BMI	TSC I-IIIA	628	395	37.1%	0.47%	18.9%	2.7%	1.6%
M	CAUC	tier2	>26 years	>90% BMI	TSC I-IIIA	180	115	36.1%	0.14%	18.9%	2.9%	1.7%
M	CAUC	tier2	>26 years	Low BMI	TSC B/IV	181	117	35.4%	0.14%	18.9%	3.0%	1.8%
F	CAUC	tier1	>26 years	>90% BMI	TSC I-IIIA	165	110	33.3%	0.12%	18.9%	3.1%	1.9%
M	CAUC	tier2	19-26 yrs	>90% BMI	TSC B/IV	148	99	33.1%	0.11%	18.8%	3.2%	1.9%
M	AA	tier2	19-26 yrs	>90% BMI	TSC B/IV	76	51	32.9%	0.06%	18.8%	3.3%	2.0%
F	CAUC	tier1	<19 years	>90% BMI	TSC I-IIIA	162	109	32.7%	0.12%	18.8%	3.4%	2.0%
F	AA	tier2	<19 years	Low BMI	TSC B/IV	74	50	32.4%	0.06%	18.8%	3.5%	2.1%
F	CAUC	tier1	19-26 yrs	Low BMI	TSC I-IIIA	3767	2554	32.2%	2.83%	18.4%	6.3%	4.0%
F	CAUC	tier1	19-26 yrs	Low BMI	TSC B/IV	1570	1084	31.0%	1.18%	18.2%	7.5%	4.8%
M	CAUC	tier1	>26 years	>90% BMI	TSC I-IIIA	578	401	30.6%	0.43%	18.2%	7.9%	5.1%
F	HISP	tier2	19-26 yrs	Low BMI	TSC I-IIIA	105	73	30.5%	0.08%	18.2%	8.0%	5.2%
M	CAUC	tier2	<19 years	>90% BMI	TSC I-IIIA	197	137	30.5%	0.15%	18.2%	8.1%	5.3%
M	CAUC	tier2	19-26 yrs	>90% BMI	TSC I-IIIA	636	447	29.7%	0.48%	18.1%	8.6%	5.6%
M	CAUC	tier2	>26 years	Low BMI	TSC I-IIIA	957	677	29.3%	0.72%	18.0%	9.3%	6.1%
F	AA	tier1	<19 years			65	46	29.2%	0.05%	18.0%	9.4%	6.2%
M	CAUC	tier1	>26 years	Low BMI	TSC I-IIIA	3058	2178	28.8%	2.29%	17.7%	11.7%	7.8%
М	AA	tier2	>26 years	Low BMI	TSC B/IV	101	72	28.7%	0.08%	17.7%	11.8%	7.8%
F	CAUC	tier1	<19 years	Low BMI	TSC B/IV	991	712	28.2%	0.74%	17.6%	12.5%	8.4%
F	CAUC	tier1	<19 years	Low BMI	TSC I-IIIA	2494	1795	28.0%	1.87%	17.4%	14.4%	9.7%
F	AA	tier2	<19 years	Low BMI	TSC I-IIIA	105	76	27.6%	0.08%	17.4%	14.4%	9.8%
F	HISP	tier1	19-26 yrs	>90% BMI	TSC I-IIIA	60	44	26.7%	0.05%	17.4%	14.5%	9.8%
М	CAUC	tier2	19-26 yrs	Low BMI	TSC B/IV	2084	1541	26.1%	1.56%	17.2%	16.1%	11.0%
F	AA	tier1	>26 years		TSC B/IV	113	84	25.7%	0.08%	17.2%	16.1%	11.0%
F	AA	tier1	>26 years	>90% BMI	TSC I-IIIA	157	117	25.5%	0.12%	17.2%	16.3%	11.1%
М	CAUC	tier2	<19 years	Low BMI	TSC B/IV	1171	881	24.8%	0.88%	17.1%	17.1%	11.8%
М	CAUC	tier1	19-26 yrs	>90% BMI	TSC B/IV	867	654	24.6%	0.65%	17.1%	17.8%	12.3%
М	CAUC	tier2	<19 years	Low BMI	TSC I-IIIA	3835	2901	24.4%	2.88%	16.8%	20.7%	14.4%

Screening out top 10% highest risk recruits reduces sample attrition by 7.5% (from 19.5% rate to 18.0% rate)

^{• 2/3}s of applicants "screened out" were falsely screened out & did complete

Graduate Historic Contracted Time In DE

- Graduate contracted time in DEP and DEP attrition rates
 - Annual avg. graduate contracted time in DEP increased from 1.5 to 3.5 months
 - In July '03 average grad contracted to wait 4.5 months to ship
 - In August '03 average grad contracted to wait 4.5 months to ship

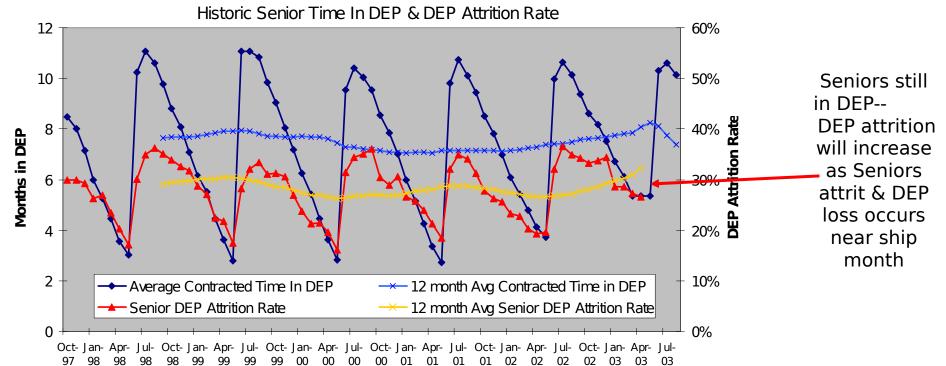
Grad DEP attrition recently increased from 11% to 15%

Historic Grad Contract Time In DEP & DEP Attrition Rate
Historic Grad Contract Time In DEP & DEP Attrition Rate
The In DEP have higher DEP attrition rates Average Contracted Time In DEP 21% 12 month Avg Contracted Time in DEP 4.0 DEP Attrition Rate 19% 3.5 12 month Avg DEP Attrition Rate Months in DEP 17% 3.0 15% 2.0 13% 1.5 11% 1.0 9% 0.5 0.0 Apr- Jul- Oct- Jan- Apr- Apr- Det- Apr- Apr- Apr- Apr- Apr- Apr- D

Contract RSM

Senior Historic Contracted Time In DEP

- Senior contracted time in DEP and DEP attrition rates are seasonal & stable
 - Small increase in Time In DEP & no increase in DEP attrition
 - Average Senior historically contracts for 8 months in DEP
 - Seniors who contract early (1st QTR) have higher DEP attrition rates



Demographic Profile of RY2002 DEP Loss

- Compared to a contract that assesses, a DEP loss contract is more likely to be:
 - High School Senior
 - Female
 - Longer Time In DEP
 - Younger
 - Not married
 - No dependents
 - Lower AFQT
 - Tier 1 (HSDG)
 - African American
 - Contracted last day of the RSM

	RY 2002	RY 2002	RY 2002
	DEP Loss	Assess	Average
Count		85642	101503
Seniors		15.4%	18.0%
Grads		65.4%	63.7%
GMA		35.7%	34.2%
GMB	10.3%	15.4%	14.6%
GFA	11.4%	8.0%	8.5%
GFB	6.0%	5.0%	5.2%
SMA		9.1%	10.1%
SMB	6.7%	3.5%	4.0%
SFA	6.2%	1.8%	2.4%
SFB	3.9%	1.1%	1.5%
Other NBOX	14.1%	20.4%	19.4%
Prior Service	4.0%	7.7%	7.1%
Age	20.8	21.5	21.4
Married	11.8%	17.7%	16.8%
w/ dependents	13.8%	20.2%	19.2%
Unemployment rate	5.66	5.67	5.63
Female		18.2%	20.0%
Caucasian	63.8%	64.9%	64.7%
African American	20.2%	17.8%	18.2%
Hispanic		12.9%	12.9%
Other minority	3.4%	4.4%	4.3%
BMI	24.5	24.5	24.5
High BMI	15.0%	17.0%	16.7%
Tier 1		87.8%	88.2%
AFQT		60.1	60.0
TSC As		69.6%	69.6%
TSC Bs		28.8%	28.8%
CA		33.9%	33.0%
CS		28.2%	28.6%
CSS		38.0%	38.4%
Reno		9.0%	9.9%
Last week of RSM		47.6%	47.1%
Last Day of RSM		12.2%	12.8%
DEP Attrition			15.6%

Historic DEP Attrition Rates

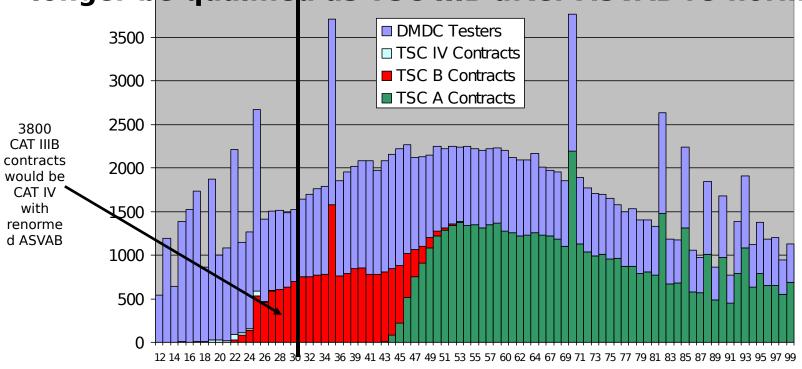
- Average DEP attrition rates
 - Contract data from RSM April 2000 through RSM April 2003
 - Raw rates--not controlling for other factors
 - Seniors (27.8%) have higher DEP attrition rates than Grads (13.1%)
 - Females (23.7%) have higher DEP attrition rates than males (15%)

	Long	or tin	na in	DED	corr	ملحلم	d to	incro	ممعد	DED	attri	tion ra	to
NBOX	Average	HOM T	2'Month'	3 Month	4 Month	5 Month	6 Month	7 Month	8 WOUTH	9 Month	10 Month	tion for	12 Month
Grads	13.1%	a ⊄l 9%ac	17918%	n 13 6%m	1 111111111111111111111111111111111111	ipt ODE	P3048/46	1948/P	36,473,0	/ ₃ 6,8% r	_ 23 6 6 6 9	in ³ DEP	34.7%
Seniors	27.8 %	120.1% :t <u>6</u> ! 1 %or	11.9%	15.2%	19.6%	22.0%	25.3%	27.1%	29.2%	31.7%	33.0%	36.8%	36.0%
Males	15.0 %	rr ⁸ i7%Ot	110 ф θ	12.6%	16.2%	20.3%	24.1%	24.4%	26.4%	28.0%	28.2%	33.0%	31.7%
Females	23.7%	9.7%	13.5%	19.3%	25.1%	28.9%	35.5%	39.6%	42.9%	44.4%	48.8%	48.7%	50.4%
Alphas	17.2 %	8.5%	10.7%	13.6%	17.8%	22.9%	27.2%	28.0%	29.5%	31.0%	32.2%	35.6%	34.6%
Bravos	16.4 %	8.5%	11.2%	14.3%	19.2%	24.3%	29.4%	29.9%	34.3%	35.8%	36.6%	39.4%	39.7%
GFA	19.8%	8.8%	13.6%	19.3%	24.8%	30.7%	36.5%	38.7%	46.3%	48.2%	56.1%	48.2%	54.7%
GFB	16.4 %	8.3%	13.4%	19.3%	24.5%	26.9%	37.1%	51.2%					
GMA	11.9%	7.6%	10.0%	12.2%	15.7%	19.6%	25.9%	26.0%	30.7%	29.9%	27.9%	33.5%	31.5%
GMB	10.9%	7.9%	10.3%	12.6%	16.0%	23.7%	28.5%	25.7%					
OTH	11.9 %	8.0%	12.4%	16.5%	18.7%	27.4%	31.8%	35.3%					
SFA	39.0%	30.0%	12.4%	20.0%	26.2%	28.0%	33.8%	39.5%	39.8%	42.8%	47.6%	49.8%	50.0%
SFB	37.1%	25.4%	14.8%	19.4%	26.9%	27.7%	33.7%	36.6%	44.1%	44.7%	48.2%	47.7%	51.5%
SMA	24.1%	18.4%	11.4%	13.9%	16.9%	20.3%	22.1%	23.5%	24.1%	26.5%	27.1%	31.5%	30.3%
SMB	25.9%	15.7%	11.6%	14.4%	19.1%	19.8%	23.6%	24.9%	29.2%	31.3%	31.4%	37.0%	36.4%
Average	16.0%	8.3%	11.2%	14.3%	18.3%	23.8%	28.0%	28.6%	30.9%	32.5%	33.4%	36.7 %	35.9%

Test Score Category Comparison

- Compare Test Score Category (TSC) contracts for ASVAB₈₀ versus ASVAB₉₇
- DMDC 158K first-time test takers and 70K Army contracts displayed with AFQT from ASVAB₉₇

 25% of current ASVAB₈₀ TSC IIIB contracts would no longenobe qualified as TSC IIIB after ASVAB re-norming



Re-normed AFQT IIIB Cutoff

AFQT from ASVAB97

Test Score Category Comparison (cont.)

- Compare Test Score Category (TSC) for ASVAB₈₀ versus ASVAB₉₇
- 25% of current ASVAB₈₀ TSC IIIB contracts would no longer be qualified as TSC IIIB after ASVAB re-norming
- Assume all applicants in DMDC data-base who contracted with Army using AFQT from ASVAB₈₀ would also have been allowed to contract with AFQT from ASVAB₉₇
- * TSC Category IV increases from .4% to 5.8% (FY2002-FY2003)

Re-weighting for FY1998-FY2003, TSC Category IV increase PMPC Pata (70K) 8 3 W IIIB I-IIIA ASVAB₈₀ TSC 0.4% 23.8% 75.7% Estimate for FY2002-FY2003

Resampled DMDC Data	IV	IIIB	I-IIIA
ASVAB ₈₀ TSC	1.5%	30.1%	68.4%
ASVAB ₉₇ TSC	8.3%	27.8%	63.9%

Estimate for FY1998-FY2003

IET Attrition Study

POC: MAJ Piskator

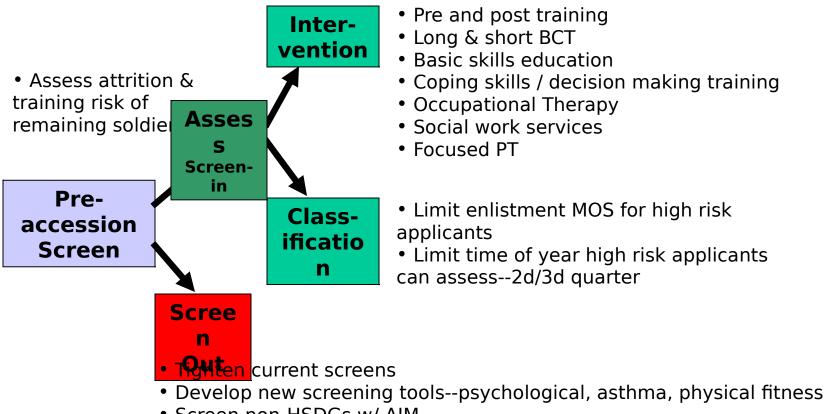
- * Enlisted Attrition Reduction Strategy Qualitative Assessment
 - *Quick, qualitative assessment & sensitivity analysis of ability to reach USAAC goal of 12% IET attrition
 - *Uses ATRRS attrition reason codes data

		T	ELS	Other	ELS	ELS				All
					_	_				
	% Attrition		Failure	Medical	Lack of	APFT	Unsat		Misc.	Attrition
	Reduction	EPTS	to Adapt	Disqualifications	Motivation	Failure	Performance	Misconduct	Categories	Categories
	5%	13.3%	13.4%	13.5%	13.6%	13.6%	13.6%	13.6%	13.5%	12.9%
	10 %	13.0%	13.2%	13.5%	13.6%	13.6%	13.5%	13.6%	13.5%	12.2%
	15 %	12.7%	13.1%	13.4%	13.5%	13.5%	13.5%	13.5%	13.4%	11.6%
	20 %	12.4%	12.9%	13.4%	13.5%	13.5%	13.5%	13.5%	13.3%	10.9%
	25 %	12.1%	12.7%	13.3%	13.5%	13.5%	13.5%	13.5%	13.3%	10.2%
	30 %	11.8%	12.5%	13.2%	13.5%	13.5%	13.4%	13.5%	13.2%	9.5%
	40 %	11.3%	12.2%	13.1%	13.5%	13.5%	13.4%	13.4%	13.1%	8.2%
	50 %	10.7%	11.8%	13.0%	13.4%	13.4%	13.3%	13.4%	12.9%	6.8%
	75 %	9.2%	10.9%	12.7%	13.3%	13.3%	13.2%	13.3%	12.6%	3.4%
	100 %	7.8%	10.0%	12.4%	13.3%	13.2%	13.1%	13.2%	12.3%	0.0%
<12%	attrits per 100 recruit	5.8	3.6	1.2	0.3	0.4	0.5	0.4	1.3	13.6
	% of IET Attrition	43.0%	26.5%	8.7%	2.5%	2.7%	3.8%	3.0%	9.8%	100.0%

- * ATC-FJ Physical Training Pilot Study
 - *Tested ability of progressive, prescriptive, BCT PT program to reduce injury & attrition while improving APFT performance

Attrition Reduction Policy Courses Of Action

• Mix of screening, assessment & interventions



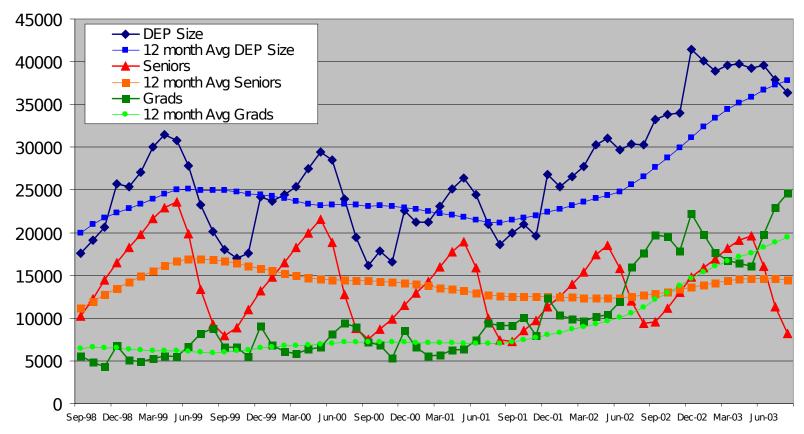
Screen non-HSDGs w/ AIM

• In future, possibly screen out highest risk applicants



Historic DEP Composition

- DEP composition by mission box at end of RSM
 - DEP composition affected by contract type & length of time in DEP
 - Grad & Senior composition is seasonal
 - Recent pronounced increase in Grads and decrease in Seniors



DEP Loss Rates & DEP Attrition Rates

- Attrition based DEP Attrition Rate
 - Of the 100 contracts for the RSM there were eventually 10 DEP losses (10% rate)
 - Can only be measured after all contracts either ship or DEP loss
- * Production based DEP Loss Rate
 - Of the 100 contracts produced for the RSM there were 10 DEP losses this month contracted from previous months (10% rate)
 - Biased by monthly production

Period 1 Produced 100 contracts Produced 100 contracts 10% "true" DEP attrition (10 contracts) All losses counted in next period

Period 2 Realizes 10 losses from Period 1 10% DEP Loss 10% DEP Attrition

Period 3 Produced 50 contracts Realizes 10 losses from Period 2 20% DEP Loss 10% DEP Attrition

Period 4 Produced 100 contracts Realizes 5 losses from Period 2 5% DEP Loss 10% DEP Attrition